

Dew Point Transmitter

**Relative Humidity, Temperature,
Moisture in PPM and Dew Point
Measurement with one
Instrument**



Dew Point Transmitter

Vasthi Dew Point Transmitter is designed to measure the performance of drying systems for air, nitrogen and other compressed gases. This Model is ideal for continuous monitoring medical, commercial and industrial applications including plastics resin dryers, breathing air, pneumatic tools, instrument air, and spraying/coating applications.

It measures dew point by utilizing microprocessor circuitry to convert sensor signal by the use of psychometric equations. Assembled in a rugged hand held IP- 65 protected Ex-proof enclosure and equipped with quick disconnect tubing couplings and an internal sensor manifold. An orifice maintains line pressure for true pressure dew point readings.

Applications

- Petrochemicals
- Utilities SF6 etc.
- Compressed Air
- Medical
- Nitrogen gas at the time of filling in the Transformers
- Transportation
- Aerospace
- Semiconductor
- Heat Treating
- Natural Gas
- Industrial Driers
- Pharmaceuticals
- Alternative fuels
- Military
- Environmental
- Ozone Generation
- Freeze Drying

Services by Vasthi: -

- Evaluation
- Custom Designs
- Calibration & Certification
- Repair
- Plant visiting
- Sampling Systems

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Special Features of Vasthi Dew Point meters: -

- Microprocessor based instrument.
- Digital Graphical Display Measuring range -80° to $+30^{\circ}$ C dew point & other ranges also available on client requirement.
- Samples compressed air up to 12 Kg/cm.
- Pressure and up to 95° C temperature can measure directly.
- Quick disconnect fitting, desiccant test.
- Inbuilt thin film water vapor sensor.
- Optional RS - 232 computer interface & data logger.



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Specifications

Sensor Principle	: Capacitive Thin Film Polymer
Dew Point Range	: -80 TO +30 °C
Relative Humidity	: 0.01 to 99.99 %RH
Temp.	: 0.01 to 99.99 ° C
Moisture	: 0 to 23000 PPM
Accuracy	: +/-1 °C for 0 to +30 °C : +/-1.5 °C for 0 to -40 °C : +/-2 °C for -40 to -80 °C : +/-2.5 °C for -80 to +30 °C
Maximum Sample Temp	: 90 °C (For higher temperature use, Optional cooling coil is available)
Maximum Pressure	: 12kg/cm ²
Response Time	: 10 Seconds for 63% step change
Display	: 128 X 64 Pixels Graphical LCD
Inlet Sample Port	: 1/4" OD Tubing
Response Time	: 10 seconds
Zero drift	: 0.2% Full Scale
Accuracy	: 1% Full Scale
Operating Voltage	: 7-30 Volt DC
Operating Temperature	: 0- 120 C
Analog Output	: 4 - 20 mA Linear/ 0-1 V DC
Communication	: RS232/RS485 (Optional)
Power Consumption	: 3.6 W max.
Max. Load impedance	: 350 - 650 Ohms (7V - 30V)
Degree of Protection	: IP -65 explosion Proof

ADDITIONAL FEATURES (OPTIONAL)

Computer Interface: RS-232

Data Logger: 1 Megabyte, Non-Volatile Memory

**VASTHI INSTRUMENTS**

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